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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/518,421	03/03/2000	Victor Rossin	805.300US01	6283
7590 10/06/2003			EXAMINER	
CHRISTOPHER F. REGAN			RODRIGUEZ, ARMANDO	
ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST, P.A. P.O. BOX 3791 ORLANDO, FL 32802-3791			ART UNIT	PAPER NUMBER
			2828	

DATE MAILED: 10/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/518,421	ROSSIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Armando Rodriguez	2828			
The MAILING DATE of this communication appropriate appropriate and the second secon	pears on the cover sheet with the	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS fro a, cause the application to become ABANDOI	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on <u>08</u> .	July 2003 .				
2a) ☐ This action is FINAL . 2b) ☑ The	nis action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims					
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application	n.	. Λ			
4) ☐ Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed.					
5) Claim(s) is/are allowed.		ran			
6)⊠ Claim(s) <u>1-33</u> is/are rejected. PAUL IP					
7) Claim(s) is/are objected to.	ç	ATENT EXAMINATE			
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. SUPERVISORY PATEUT 2800 TECHNOLOGY CENTER 2800					
Application Papers					
9) The specification is objected to by the Examine					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120	Adminor.				
•	n priority under 35 H.S.C. & 119	(a)-(d) or (f)			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documen	ts have been received				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bu * See the attached detailed Office action for a list	ureau (PCT Rule 17.2(a)).				
14) ☐ Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C. § 119	e(e) (to a provisional application).			
 a) ☐ The translation of the foreign language prediction 15)☐ Acknowledgment is made of a claim for domes 	• •				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)			



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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-33 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,10-15,17,32 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vawter et al (PN 6,229,947).

Figure 17 illustrates a semiconductor laser having a tapered waveguide for coupling to an optical fiber, the waveguide having three portions a wide portion (75), a tapered middle portion (76) and a narrow portion (78), as described in column 6 lines 30-39.

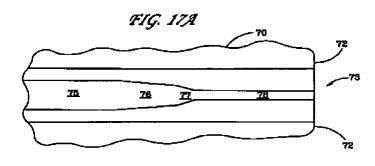
Figures 11A and 11B illustrate the far-field beam profile with a peak at 0 degrees and a constant slope, as described in column 9 lines 1-14.

Column 9 lines 15-25 disclose suppression of modes higher than the fundamental mode.

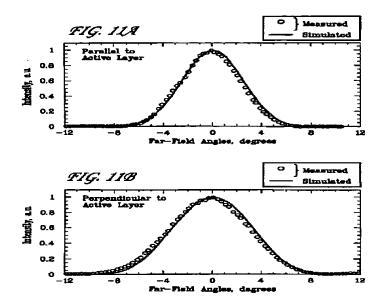
Figures 2A-2C, 13A and 13B illustrate different widths for the tapered waveguide, as 2.4,1.2,0.7,3.0 and 1.0~um, respectively, which are within close range of the recited widths of applicants invention.

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Therefore, it would have been obvious to person having ordinary skill in the art at the time the invention was made to modify the semiconductor laser of Vawter et al by changing the size of the device. Furthermore, In Gardner v. TEC Systems, Inc., 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), cert. denied, 469 U.S. 830, 225 USPQ 232 (1984), the Federal Circuit held that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device.



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Claims 1-9,16-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vawter et al (PN 6,229,947), as applied to claims 1 and 17 above, and in view of Ventrudo (PN 6,058,128) and Miki et al (PN 6,094,515).

Regarding claims 1-9,17-31,

Vawter et al discloses coupling the laser system to a fiber, but fails to disclose the fiber having a wavelength selection grating.

Ventrudo discloses coupling a laser system to a fiber having a grating.

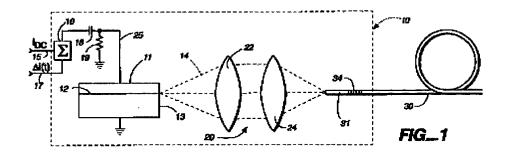
Ventrudo illustrates in figure 1 a semiconductor laser (11) coupled via lenses (22,24) to an optical fiber (31), which contains a rare earth active gain medium (30) and a Bragg grating (34) positioned at 2cm to 3cm from the laser facet and having a reflectivity not exceeding 10%, as described in column 4 lines 19-67. In the abstract and columns 5 and 7 Ventrudo discloses the grating is provided at distance from the laser for causing the system to switch between the coherence collapse and coherence state.

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Therefore, it would have been obvious to a person having ordinary skill in art at the time the invention was made to couple the laser system of Vawter et al with the fiber grating of Ventrudo because Ventrudo discloses coupling a fiber grating to laser system which will provide a broad band of wavelengths in a communications system.

Regarding claim 16,

The use of temperature controller within a semiconductor laser coupled to fiber waveguide is well known in the art, as shown in figure 2A and disclosed in column 4 line 13 of Miki et al.



Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Armando Rodriguez whose telephone number is (703) 308-6218. The examiner can normally be reached on 10-hour day / M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

4881.

Armando Rodriguez

Examiner

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AR/PI

Paul Ip Supervisor Art Unit 2828